

POPULAR SCIENCE & INVENTION

Pure iron in the present of pure oxygen does not rust.

Peru, in the opinion of Professor Guarini, might rank among the leading industrial states of the world by the utilization of electric power and electric smelting.

The Vienna Academy of Sciences has spent nearly \$3000 in working ten tons of uranium ore for radium. The yield has three grains of pure radium—the largest amount ever secured at once, the value being \$320,000.

Electro-magnets are used for lifting and handling large panes of glass. As glass is a non-magnetic material, a piece of sheet iron is placed under it and one or more magnets applied on the upper face. The magnets attract the sheet iron and therefore hold the glass suspended while moving.

The inventor of the modern suspension bridge was James Finley, of Pennsylvania. His first bridge was built in 1801-02. By 1810 he had built eight. He built many more after that. A bridge built by his licensee, John Tappan, over the Merrimack, in Massachusetts, in 1810, is still in use and traversed by trolley cars. A bridge built in strict accordance with his original plans over the Lehigh river, at Lehigh Gap, in 1824, is still in use.

Government analyses of so-called temperance drinks sold in England prove that they contain from 2 to 12.3 percent of alcohol. The liquor laws of England take no account, for purposes of taxation, of beverages containing less than 2 percent, but of 4,147 samples of supposedly innocent drinks examined in the last four years, 3,098 exceeded that proportion. Ginger beers and herb beers were found to have the highest percentage of alcohol, some of them containing as much as claret or Rhine wine.

A SCHOOL FOR ARMY HORSES.

Fort Reno Will Soon Be Opened as a Remount Station.

Picturesque old Fort Reno in Oakland is to be made a "remount station," a place where new mounts will be provided for cavalrymen. It is proposed to turn out more than a thousand head of horses and mules each year, ready for the military. The cavalrymen who have been stationed at the fort have gone to other posts, and just as soon as stables can be built the horse school will open, says the Kansas City Star.

England and France have remount stations, but Uncle Sam has not had one heretofore. If the one here proves a success, it is probable that all horses and mules for the United States army hereafter will go through a course of training before graduating into regular army life.

"A horse usually lasts about seven years in the service," said Capt. Letcher Hardeman, who is here arranging for the opening of "school." "A mule is good for ten years. The contractors who have been supplying the army horses have been buying them between the ages of four and eight years. Our experiment will be with three-year-olds exclusively. There'll be no broncho-busters here. We don't care for any man who would mount a three year old, sock a pair rowels into his side and fight it until it's broken in spirit and broken in heart. That kind of breaking may do on the plains, but it won't do for the United States army. A good cavalry horse must have a cavalryman's spirit. Nor will the cavalrymen themselves do the breaking. This work will be in the hands of civilians, under the supervision of army officers. The best trainers we can find will be employed. After the horses have been broken, cavalrymen will teach them the game of war. No animal is to be roughly handled. Kind treatment goes a long way with a horse in cultivating a good disposition.

"We believe there is economy in a remount station. Not only will we get a better, more desirable lot of horses, but by taking them as three year olds, we will get from one to five years more service from them, than when we took them four to eight years old. They may be bought cheaper, too.

"A rebellious, unwilling horse can almost disrupt a cavalry movement and the sooner it has 'I. O.'—Inspected, Condemned—branded on its side, the better off that troop of cavalry is."

Capt. Hardeman says that not a great many horses are condemned for viciousness, but occasionally one entirely unfit for use is got rid of.

Truthful.

"Why did you tell your wife you had a highball?"
"Because I had had six."—Houston Post.

CREAM PUDDING.

Two tablespoonfuls of flour, one large cupful of powdered sugar, two tablespoonfuls of cream, three eggs. Beat the sugar and cream into the yolks, beat the whites separately, mix all together, then sift in the flour gradually, turn into heated pans, buttered; bake twenty minutes.

CURES ALL ITCHING ERUPTIONS.

Glencoe, Md., Nov. 21st, 1907: "I have had eczema on my hands for 12 years, and have tried everything. I have been using 'Tettering' 4 days and the results are great." Signed, Mrs. M. Harvey. Tettering is the surest, safest, speediest cure for eczema and all other skin diseases. Sold by druggists or sent by mail for 50c. by J. T. Saur-Tanna, Dept. A, Savannah, Ga.

A SAFE SENTRY.

Officers (to new recruit) doing "sentry go" for the first time—Now, mind you let no one go by without challenging them.

Recruit—That's all right, guv'nor. Don't you worry. The slightest noise wakes me up.—Punch.

How's This?

We offer One Hundred Dollars Reward for any case of Catarrh that cannot be cured by Hall's Catarrh Cure.

F. J. CHENEY & Co., Toledo, O. We, the undersigned, have known F. J. Cheney for the last 15 years, and believe him perfectly honorable in all business transactions and financially able to carry out any obligations made by him.

WALDING, KINNAN & MARVIN, Wholesale Druggists, Toledo, O. Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system. Testimonials sent free. Price, 75c. per bottle. Sold by all Druggists. Take Hall's Family Pills for constipation.

LEMON JELLY FOR CAKE.

Take the yolks of three eggs, the juice and rind of one lemon, quarter of a pound of butter, half pound granulated sugar. Put into a skillet on the fire and stir until it becomes thicker than custard, then stir in the whites beaten to a froth. As soon as this comes to a boil, take it off and stir until cold. When quite cold put it between layers of cake instead of jelly. It is excellent also in puff paste. Cover the custard with the paste.



This woman says Lydia E. Pinkham's Vegetable Compound saved her life. Read her letter.

Mrs. T. C. Willadsen, of Manning, Iowa, writes to Mrs. Pinkham:

"I can truly say that Lydia E. Pinkham's Vegetable Compound saved my life, and I cannot express my gratitude to you in words. For years I suffered with the worst forms of female complaints, continually doctoring and spending lots of money for medicine without help. I wrote you for advice, followed it as directed, and took Lydia E. Pinkham's Vegetable Compound and it has restored me to perfect health. Had it not been for you I should have been in my grave to-day. I wish every suffering woman would try it."

FACTS FOR SICK WOMEN.

For thirty years Lydia E. Pinkham's Vegetable Compound, made from roots and herbs, has been the standard remedy for female ills, and has positively cured thousands of women who have been troubled with displacements, inflammation, ulceration, fibroid tumors, irregularities, periodic pains, backache, that bearing-down feeling, flatulency, indigestion, dizziness, or nervous prostration. Why don't you try it?

Mrs. Pinkham invites all sick women to write her for advice. She has guided thousands to health. Address, Lynn, Mass.

American Cotton and Business University and School of Telegraphy, Consolidated MILLEDGEVILLE, GA.

COTTON: We guarantee to complete any one with good credit in 30 days how to grade, classify, average, ship, buy and sell cotton, and be able to protect themselves in any first-class market. We also teach how to grade cotton by a Correspondence Course. Our sample rooms, under expert cotton men. All students receive a diploma. **BOOKKEEPING:** Single and double entry. Night system; record system; all systems. **TELEGRAPHY:** Under three expert telegraphers and train dispatchers. Main line Railroad wire. The best equipped school in the south. Expenses reasonable. Write for Catalogue, and state course desired.

NUBIAN TEA
TRY A BOTTLE
Stimulates the Liver and Bowels into natural action. Its effects are thorough and quick. Pleasant to take. Ask your dealer for it.

Learn Telegraphy
Young Men and Ladies of ambition should master Telegraphy and R. H. Accounting in one of our Institutes. Great scarcity of operators. We operate five schools under direct supervision of Railroad Officials. Main-line wire in all our schools. Positions absolutely assured, when completed. Work for board. Prospectus free. CINCINNATI, O. PHILA., PA. MEMPHIS, TENN. COLUMBIA, S. C.

The average missionary contribution for each pupil in the Sunday schools is higher in the Episcopal denomination than any other.

Habitual Constipation

May be permanently overcome by proper personal efforts with the assistance of the one truly beneficial laxative remedy, Syrup of Figs and Elixir of Senna, which enables one to form regular habits daily so that assistance to nature may be gradually dispensed with when no longer needed, as the best of remedies, when required, are to assist nature and not to supplant the natural functions, which must depend ultimately upon proper nourishment, proper efforts, and right living generally. To get its beneficial effects, always buy the genuine

Syrup of Figs and Elixir of Senna

manufactured by the
CALIFORNIA FIG SYRUP CO. ONLY
SOLD BY ALL LEADING DRUGGISTS
one size only, regular price 50c per Bottle



THERMOMETER.
Knicker—We don't know how hot we are till we look at the thermometer.
Bocker—And we don't know how prosperous we are till we look at the stock market.—New York Sun.

A Victorian Anthology.

One discovers already in her two qualities which she retained through life and which struck those who knew her personally in her later years all the more because they seemed at first sight to be hardly compatible qualities. One was a strong personal pride and sense of the dignity of her position. She was not haughty, much less arrogant. But she was penetrated through and through with a sense of what it meant to be head of the United Kingdom and the British Empire. Yet although this feeling was added to her own high spirit—she would have been deemed a high spirited woman even in a private station—it did not in her bear the fruit of vanity. She was not vain. She knew her own intellectual limitations and never tried to make a figure in fields for which he was not fitted. If one were to make a comparison at all between persons whose surroundings were so different one might in comparing her with Queen Elizabeth observe that she was quite free from two of Elizabeth's salient faults, personal vanity and faithlessness. Truthfulness and honor were the basis of her character and as she was above deception herself, so she had a horror of deceit in others. She thought that international policy ought to be straight-forward and sometimes remonstrated against courses of action which seemed open to reproach on that score.—James Bryce in North American Review.

CURIOUS.

"Mamma?"
"What, dearie?"
"Why do chickens have combs when they ain't got any hair?"—Farmers' Home Journal.



THE J. R. WATKINS MEDICAL CO.
WINONA, MINNESOTA.
Makes 70 Different Articles: Household Remedies, Flavoring Extracts, All Kinds of Toilet Preparations, Fine Soaps, Etc.
Cannvassers Wanted in Every County.
40 Years Experience, \$3,000,000 Output.
BEST PROPOSITION EVER OFFERED AGENTS

Coming to the "STATE FAIR?" Oct. 8 to 25th. Everybody's coming—it's going to be the "BIGGEST AND BEST FAIR" in the History of Atlanta.

J. M. HIGH CO.

Atlanta's Leading Department Store

Extends to Each and Every Reader of This Paper a Cordial Invitation to Make Their Store HEADQUARTERS.

The fame of the J. M. HIGH CO. STORE is wide-spread throughout the South Atlantic States. It is the chief source of dress supply for the women of Atlanta and surrounding country as well as the shopping center by mail for thousands of families living in Georgia and adjoining states.

Its abundant and conveniently arranged stocks, completely filling five spacious floors, embrace, in splendid variety:

Millinery and Ready-to-Wear Garments

representing the "High C" of new fashions.

Silk and Woolen Dress Materials

from the foremost manufacturers of Europe and America.

And all other DRESS ACCESSORIES and MERCHANDISE, to be found in any Metropolitan Department Store.

Thirty or more Departments—all under one roof and all under expert supervision.

"HIGH'S" BIG STORE is One of the Sights of Atlanta.

(At-40'08)

Potash



Make Two Bundles of Wheat Grow Where but One Bundle Grew Before

Getting a full crop from a fertilizer without enough Potash, is like getting well

by the doctor's prescription with its most important drug left out. Commercial fertilizers need more Potash to get all the crop profit you are entitled to.

Mix 25 to 30 pounds of Muriate of Potash with 200 pounds of bone meal phosphate. That will raise wheat! Set clover, too! The proof will come next year in bigger crop, more profit. Potash is profit. Buy the Potash first.

Send for Our Book, containing facts about soil, crops, manures and fertilizers. Mailed free.
GERMAN KALI WORKS, Candler Building, Atlanta, Georgia
New York—93 Nassau Street. Chicago—Monadnock Building

PUTNAM FADELESS DYES

Color more goods brighter and faster colors than any other dye. One 10c. package colors all fibers. They dye in cold water better than any other dye. You color the garments without ripping apart. Write for free booklet—how to dye, bleach and mix colors. **MONROE DYEING CO., Quincy, Illinois.**